

Environmental Management Performance Report

January 2003



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Department of Energy
Richland Operations Office



Bechtel Hanford, Inc.
Environmental Restoration Contractor

Data as of month-end January

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

TABLE OF CONTENTS

INTRODUCTION	1
SECTION A – EXECUTIVE SUMMARY	3
NOTABLE ACCOMPLISHMENTS	3
SAFETY	4
PROCESS IMPROVEMENTS	9
MAJOR COMMITMENTS	10
PERFORMANCE OBJECTIVES.....	10
TOTAL ERC COST/SCHEDULE OVERVIEW	11
ISSUES (REGULATORY/EXTERNAL/DOE)	14
KEY INTEGRATION ACTIVITIES	14
UPCOMING PLANNED KEY EVENTS	14
SECTION B – RIVER CORRIDOR RESTORATION	15
ACCOMPLISHMENTS.....	15
MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS).....	18
PERFORMANCE OBJECTIVES.....	18
PERFORMANCE MEASURES/METRICS	19
COST/SCHEDULE STATUS.....	21
ISSUES (REGULATORY/EXTERNAL/DOE)	23
INTEGRATION ACTIVITIES	23

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

INTRODUCTION

The monthly Environmental Restoration (ER) Environmental Management Performance Report (EMPR) consists of two sections: Section A - Executive Summary, and Section B – River Corridor Restoration. All data are current as of January 31, 2003, unless otherwise noted.

Section A – Executive Summary. The Executive Summary begins with a description of notable accomplishments for the current reporting month that are considered to have made the greatest contribution toward safe, timely, and cost-effective Hanford Site cleanup. Safety statistics are also included. Major commitments are summarized that encompass Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones. Fiscal year 2003 (FY03) performance objectives and status are provided. Fiscal year-to-date ER Project cost and schedule variance analysis is summarized. Issues that require management and/or regulator attention are addressed along with resolution status. The Key Integration Activities section highlights site activities that cross contractor boundaries, supporting overall Hanford Site goals. The Executive Summary ends with a listing of major upcoming planned key events (90-day look ahead).

Section B – River Corridor Restoration. This section contains more detailed Environmental Restoration Contractor (ERC) monthly activity information and performance status for the three Project Baseline Summaries (PBSs) within the River Corridor Restoration outcome. These three PBSs consist of RC01 - 100 Area River Corridor Cleanup, RC02 - 300 Area Cleanup, and RC05 - River Corridor Waste Management.

PBS SC01 - Near-Term Stewardship is structured within the Site Stewardship outcome. Due to the minimal FY03 workscope identified for this PBS, SC01 performance data is included in the Executive Summary cost/schedule overview.

Performance Incentive and Safety information in this report is identified with a green, yellow, or red text box used as an indicator of the overall status. Green indicates work or issue resolution is satisfactory and generally meets or exceeds requirements, yellow indicates that significant improvement is required, and red indicates unsatisfactory conditions that require immediate corrective actions.

Section A - Executive Summary



Junction Box Demolition in 100 B/C Area



ERDF Container in the 116-NR-1 Survey Tent



H Reactor Area 3 Demolition



Macro Encapsulation of Elemental Lead at ERDF

Data as of month-end January

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

SECTION A – EXECUTIVE SUMMARY

Data as of month-end January

NOTABLE ACCOMPLISHMENTS

River Corridor Restoration:

The remaining closeout sampling activities for excavated liquid waste sites and pipelines in the 100 F Area were completed during January.

In the 100 N Area, revegetation of the 120-N-1 and 120-N-2 waste sites was completed. Excavation of plume 6, located adjacent to the 116-N-1 Trench, was also completed during January, and excavation of additional plumes was initiated. A presentation was made to the Hanford Advisory Board (HAB) River and Plateau Committee on January 8 to explain the regulatory and technical aspects of the 116-N-1 waste site Explanation of Significant Difference (ESD). The ESD proposes changes to the records of decision for soil sites located in the 100 N Area, and will begin a 30-day public comment period beginning February 3.

During January, excavation of the 618-5 Burial Ground located in the 300 Area was completed, with only final cleanup of side slopes and bottom remaining.

During January, ERC reached a milestone when the 4-millionth ton of contaminated waste was disposed in the Environmental Restoration Disposal Facility (ERDF). A total of 3,667,619 metric tons (4,042,879 tons) of waste have been disposed in ERDF since operations began in July 1996.

F Reactor below-grade concrete pourbacks were completed on January 15. Mobilization for F Reactor roof installation is scheduled to begin in February.

The Surveillance and Maintenance Plan for the DR Reactor safe storage enclosure (SSE) was approved by the regulators on January 29. Approval of this plan satisfies completion of Tri-Party Agreement Milestone M-93-16, "Complete 105-DR Reactor Interim Safe Storage" (due September 30, 2003), eight months ahead of schedule.

The 109-N facility asbestos abatement subcontract was awarded during January.

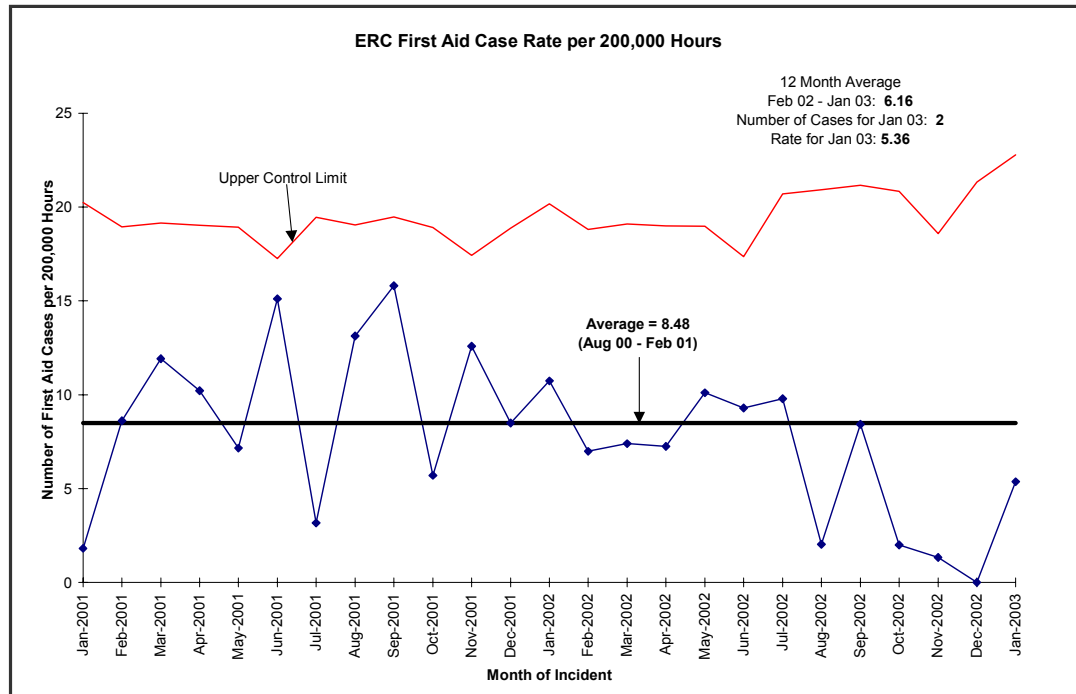
The conceptual design was completed for the B Reactor ventilation upgrade. B Reactor hazard mitigation work also progressed (electrical repairs, lead paint encapsulation, and fire protection upgrades).

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

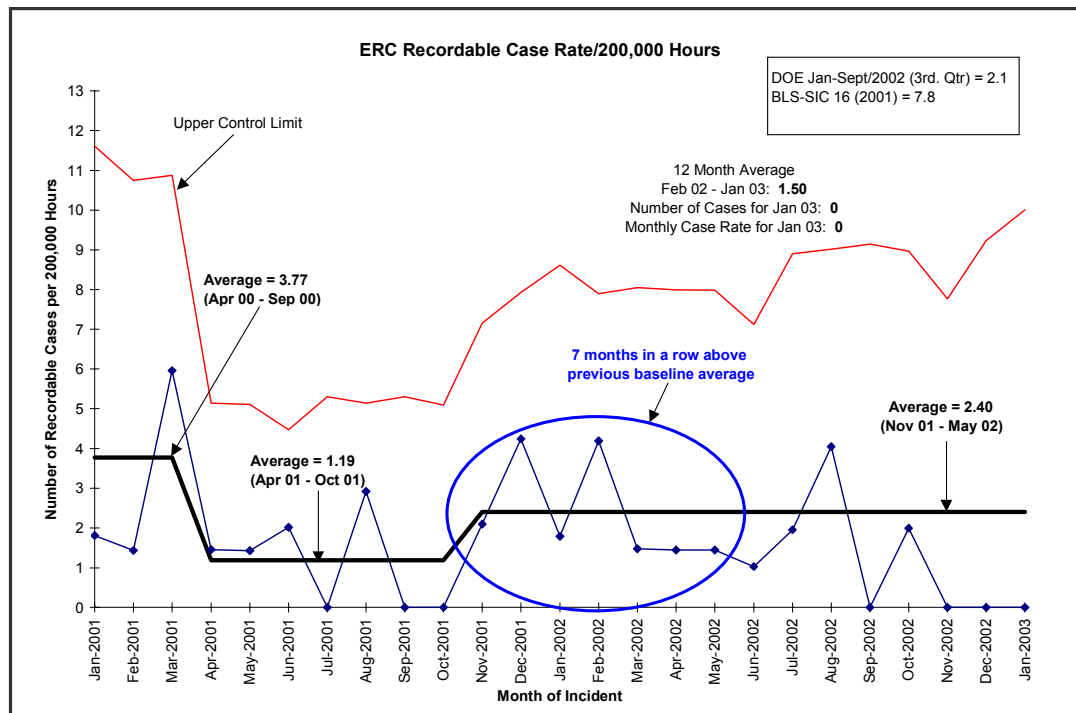
ENVIRONMENTAL RESTORATION

JANUARY 2003

SAFETY



NOTE: This data has been stable since August 2000. Positive trend at 6 consecutive months below the baseline average.



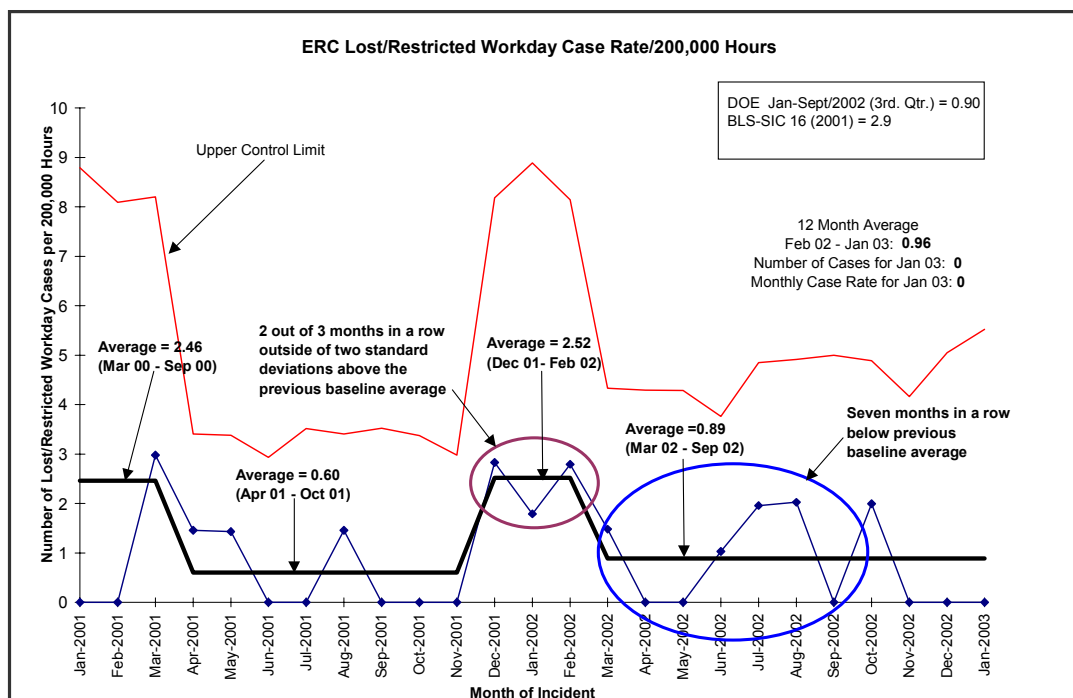
NOTE: This data has been stable since November 2001. Positive trend at 5 consecutive months below the baseline average.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

JANUARY 2003

SAFETY (continued)



NOTE: The baseline average was revised to reflect the impact of an additional lost workday case that occurred in December 2001 and reported in November 2002. This data has been stable since March 2002.

Safety:

The following actions have or are being taken by the Environmental Restoration Contractor (ERC) to focus on safety improvements:

- Activities continued to obtain Voluntary Protection Program (VPP) Star Status recognition.
- The Subcontract Technical Representatives (STR) implemented the use of a "Performance Review Form". This form is used to document subcontractor performance, safety, and contractual compliance.
- A new Control of Hazardous Energy and Materials (Lockout/Tagout) training course was developed and implemented. The training consists of ten separate modules that can be administered commensurate with an individual's responsibilities.
- All incidents are thoroughly investigated. Emphasis is placed on causes and corrective actions that can be implemented where applicable. Timely discussions take place in safety meetings and plan of the day (POD) meetings. When investigations are complete, the results are sent to the Area Superintendents, Field Superintendents, and Supervisors for review at the PODs.
- Bechtel Hanford, Inc. (BHI) continues to look for trends and consults with Corporate and other Bechtel National, Inc. (BNI) contacts for ways to enhance performance.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

SAFETY (continued)

- The ERC continues to work closely with the Hanford Atomic Metal Trades Council (HAMTC) Safety Representative to resolve safety issues as they arise.
- Senior management continues to meet with small groups of employees in the field to discuss safety and personal commitment to safety.
- The Field Support General Superintendent and Project Safety Manager continue to visit different projects on a regular basis, meet with project team members, and conduct safety walkarounds. Area Superintendents for Decontamination and Decommissioning projects and Surveillance and Maintenance projects are included in these walkarounds. The walkaround participants visit projects other than those for which they are responsible. Information from the walkarounds is shared with the team and other Field Support personnel. Safety conditions requiring corrective action are assigned to project personnel or support personnel for action and are tracked to closure. This activity is ongoing.
- The ERC previously recognized a trend in sprain and strain injuries. Heightened awareness regarding proper lifting techniques, the use of mechanical devices for lifting heavy or awkward loads, proper planning, and increased participation in low-impact stretching exercises prior to engaging in lifting or pulling activities are being utilized to reduce these types of injuries.
- The ERC has invited "Brown Bag Speakers" to join employees during lunchtime at the 3350 George Washington Way facility to discuss various safety and health topics.
- Field Support personnel conduct weekly safety inspections. Findings are entered into a database and tracked to closure. Daily inspections are also performed and logged in the project's daily logbook or daily report.
- The Reactor Interim Safe Storage (ISS) project developed and is implementing a new, regulator-approved, waste handling/characterization process for removal of the lower fill material in the H Reactor FSB. This action will significantly reduce the number of heavy equipment and worker interfaces that occur during the operation and also implements a significant lessons learned from the F Reactor FSB work.

	FYTD	Current Period (12/23/02- 01/19/03)	Current Period Comments
First Aid	4	2	Strain (2)
OSHA Recordable	1	0	
Restricted Workday Case	1	0	
Lost Workday Case	0	0	

Status:

- As of January 31, 2003, the ERC had worked approximately 495,100 hours without a lost workday case. The last incident occurred on June 4, 2002 and became lost time on September 4, 2002. Continuous employee involvement is being fostered by the Integrated Environmental Safety and Health Management System (ISMS), VPP, labor alliance programs, e-mail communications, and one-on-one meetings with employees.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

SAFETY (continued)

- The ERC experienced two first aid injuries in January. They were the only injuries of any type (i.e., no OSHA recordable or lost away/restricted cases) since November 1, 2002.
- The STRs continue to focus on oversight of subcontractor's safety program implementation and performance.
- Control of Hazardous Energy and Materials (Lockout/Tagout) assessments performed by Assessments, Regulatory, and Quality Programs (ARQP) and RL Facility Representatives indicated the changes made during the past period have been effective. Results indicated zero findings.
- The ERC VPP self-assessment report was completed and approved by BHI management. The VPP Steering Committee is drafting the Safety Improvement Plan from improvement opportunities provided in the self-assessment. Additionally, work was started on the VPP Star Recognition application.
- The ERC continues to work diligently to provide accurate and timely reporting of occurrences, and to conduct followup fact-finding critiques to identify problems and improve safe field operations.

Integrated Environmental Safety and Health Management System (ISMS):

Residual herbicide applications continued on bare-ground waste sites along the River Corridor that have the potential to spread radionuclide contaminants. Maintenance herbicide applications around ERC facilities and parking areas were initiated to prevent nuisance vegetation. Application areas in the herbicide program are monitored throughout the growing season. Further herbicide applications will be directed to specific sites as needed.

The annual audit of the Severn Trent Laboratory in Richland was completed on January 22. The audit team consisted of ERC technical and quality assurance staff, who reviewed the laboratory's compliance to *Hanford Analytical Service Quality Assurance Requirements Document* (HASQARD) and to the contract. No audit findings were identified. The Severn Trent Laboratory provides split radiochemical, quick turn-around time metals and protocol hexavalent chromium analysis to the ERC projects.

In order to support the planning for D&D of ancillary facilities in the 100 N Area, maps are being developed that are color coded to the type of waste stream. The geographical information system (GIS) data are being expanded to ensure all facilities are included that are listed in the *EE/CA for the 100 N Area Ancillary Facilities and Integration Plan* (DOE/RL-97-02).

An advance February copy of *Operational Radiation Safety*, a Health Physics Society publication, featured a story of the ERC-developed "Advanced Characterization System (ACS)." The story highlights both challenges and successful implementation at several ERC projects including: 108-F Radiobiology Building, D Reactor complex, H Reactor FSB, and the HEPA pre-filters at B Plant. The ACS was funded from Return on Investment (ROI) funds through the Pollution Prevention Program and won the 2003 National DOE Pollution Prevention Award in the ROI category.

Lessons Learned (ERC-03-003), "Reactive Materials Excavated from the 300 Area at 618-5 Burial Grounds," described how the Project's implementation of the ERC ISMS Process provided the basis for safely performing work. The Project and subcontractor recently celebrated the achievement of zero accidents, injuries, or first aid cases for a one-year period.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

SAFETY (continued)

An independent assessment of the ERC "Other Hanford Contractor Work Order and Oversight Process" was conducted.

BHI-CQP-01, Procedure 2.8, Rev. 6, "Evaluation of Potential Noncompliances with the QA Rule," was issued which streamlined the noncompliance evaluation and issuance process.

A multi-discipline Task Team was formed to evaluate five events experienced by the ERC in the 4th quarter of calendar year 2002. The team's focus was to evaluate the events to determine if the ERC work planning and execution processes were followed and/or required strengthening. Specifically, the team was to collect data from each event and then analyze that data for commonalties that may indicate system weaknesses. Determinations of adequacy were to be drawn from comparisons of the data to the goals and expectations of the ISMS and specifically those processes the ERC has implemented to address those expectations. The Task Team report is expected in February.

BHI continued toward full implementation of the ISMS Performance Objectives, Measures, and Indicators Process (hereafter referred to as metrics) that BHI communicated to RL in document BHI-01550. Data collection continues. New data for the month of January for all metrics requiring monthly reporting were provided to RL by letter.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

PROCESS IMPROVEMENTS

Six Sigma:

- Continued with the implementation of the Six Sigma program across the ERC.
- Continued the development of a top-down approach for Six Sigma. Nine major business processes were defined. Developed process flows at Level 2 and Level 3 for site evaluation.
- The Steering Committee continued to meet in January. "All Champions" meeting was held with the extended group of 15 champions reporting on the activities of 51 Yellow Belts.
- Yellow Belt summit was conducted January 28. This was the final step to fulfill certification requirements for the newly trained Yellow Belts. To date, there are 51 certified Yellow Belts.
- Six Sigma Finance Training was conducted January 20. Training was provided for ten people from the Controller and Project Controls.

Process Improvement Projects (PIPs) and status include:

- Presented the business case for the Remedial Action and Waste Disposal (RAWWD) Container Handling PIP to the Steering Committee. The Committee authorized proceeding with the PIP.
- Continued with the development of a business case for processing anomalous waste at the burial grounds.
- The business case for addressing the requirements of radiological surveys of trucks leaving from low-risk sites was approved by the Steering Committee.
- Business cases for two potential PIPs, one on the Employee Job Task Analysis (EJTA) process and the other on Total Hazard Management are in development.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

MAJOR COMMITMENTS

Tri-Party Agreement Milestones: Two (2) Tri-Party Agreement milestones were planned for completion during FY03.



Total Tri-Party Agreement Milestones Due in FY03	2
Total Planned through January	0
Total Completed through January	2

Remaining Tri-Party Agreement Milestones to be Completed in FY03	0
Forecast Ahead of Schedule	0
Forecast On Schedule	0

Tri-Party Agreement Milestone M-16-10A, "Initiate Remedial Action in the 100-KR-1 Operable Unit", (due August 1, 2003) was completed on December 11, more than seven months ahead of schedule. Milestone M-93-16, "Complete 105-DR Reactor Interim Safe Storage" (due September 30, 2003), was completed on January 29, eight months ahead of schedule.

PERFORMANCE OBJECTIVES

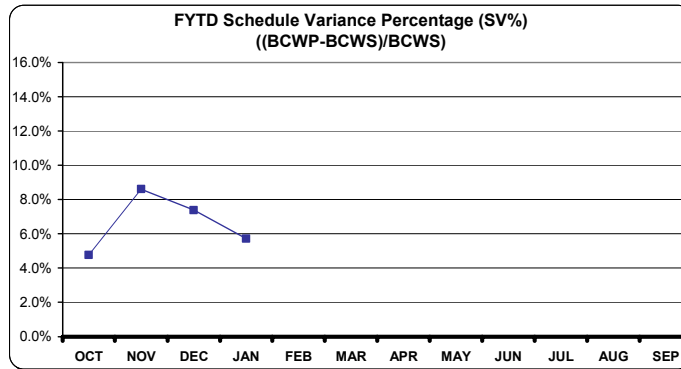
BHI focus area performance incentives are noted below. Specific River Corridor performance incentives are identified in Section B.

	PI	Fee Allocation	Task	Status
	Execute Detailed Work Plan	Incentive fee shall not exceed 100%; if SPI is less than 75% at end of contract period, no fee shall be awarded.	Perform to approved DWP through contract period ending 12/31/02 in accordance with the SPI provision.	Through December, the SPI was 1.10, or 10% ahead of schedule. No revision to the PI has been received to recognize contract extension through April 30, 2003.
	Safety	Up to 50% of fee available for this PI may be forfeited if failure to satisfactorily meet PI in accordance with applicable requirements.	Protect worker safety and health, public safety and health, and the environment.	No issues or negative findings were identified with regard to the 16 performance failure criteria associated with this performance incentive. In addition, while the ERC experienced two first aid injuries in January, they were the only injuries of any type (i.e., no OSHA recordable or lost away/restricted cases) since November 1, 2002.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

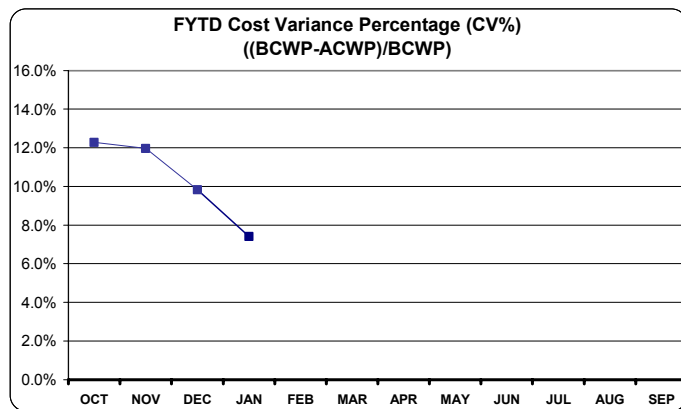
TOTAL ERC COST/SCHEDULE OVERVIEW

**FY03 ERC PERFORMANCE SUMMARY
FYTD JANUARY 2003
(\$K)**



***NOTE: ERC current contract completes April 30, 2003.**

	OCT	NOV	DEC	JAN	FEB	MAR	*APR	MAY	JUN	JUL	AUG	SEP
DWP	8,451	8,521	9,154	8,467	8,304	10,768	8,608	8,797	10,797	8,997	10,602	9,997
DWP (Accum)	8,451	16,973	26,127	34,594	42,898	53,666	62,274	71,071	81,868	90,865	101,466	111,463
CURRENT PERIOD												
BCWS	8,898	8,767	10,438	8,556	8,411	10,539	9,263	8,901	10,892	9,248	10,769	9,295
BCWP	9,322	9,863	10,993	8,579								
FISCAL YEAR TO DATE												
BCWS	8,898	17,665	28,103	36,659	45,070	55,609	64,872	73,773	84,665	93,914	104,683	113,978
BCWP	9,322	19,185	30,178	38,757								
SV	424	1,520	2,075	2,098								
SV%	4.8%	8.6%	7.4%	5.7%								



	OCT	NOV	DEC	JAN	FEB	MAR	*APR	MAY	JUN	JUL	AUG	SEP	EAC
CURRENT PERIOD													
ACWP	8,177	8,713	10,324	8,670									
BCWP	9,322	9,863	10,993	8,579									
FISCAL YEAR TO DATE													
ACWP	8,177	16,890	27,214	35,883									
BCWP	9,322	19,185	30,178	38,757									
CV	1,145	2,295	2,964	2,874									
CV%	12.3%	12.0%	9.8%	7.4%									
EAC (Cumulative)	8,177	16,890	27,214	35,883	45,957	56,863	65,879	74,311	84,656	93,064	103,161	111,957	111,957

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

TOTAL ERC COST/SCHEDULE OVERVIEW (continued)

**FY03 ERC PBS PERFORMANCE SUMMARY
FYTD JANUARY 2003
(\$K)**

	FY03 DWP BCWS	CURRENT BCWS	FYTD			FYTD SCHEDULE VARIANCE			FYTD COST VARIANCE			EAC
			BCWS	BCWP	ACWP	\$	%	SPI	\$	%	CPI	
RC01	65,900	67,203	21,643	21,678	20,347	35	0.2%	1.00	1,331	6.1%	1.07	66,390
RC02	12,608	13,403	4,113	5,830	4,884	1,717	41.7%	1.42	946	16.2%	1.19	12,691
RC05	32,855	33,273	10,890	11,236	10,644	346	3.2%	1.03	592	5.3%	1.06	32,782
RCR-Subtotal	111,363	113,879	36,646	38,744	35,875	2,098	5.7%	1.06	2,869	7.4%	1.08	111,863
SC01	100	99	13	13	8	0	0.0%	1.00	5	38.5%	1.63	
SS-Subtotal	100	99	13	13	8	0	0.0%	1.00	5	38.5%	1.63	94
ERC TOTAL	111,463	113,978	36,659	38,757	35,883	2,098	5.7%	1.06	2,874	7.4%	1.08	111,957

Schedule Variance Summary:

Through January, the ER Project is \$2.1M (+5.7%) ahead of schedule. The positive schedule variance is attributed to the acceleration of the 618-5 Burial Ground remediation operations two months ahead of schedule. ERDF operations are also ahead of schedule.

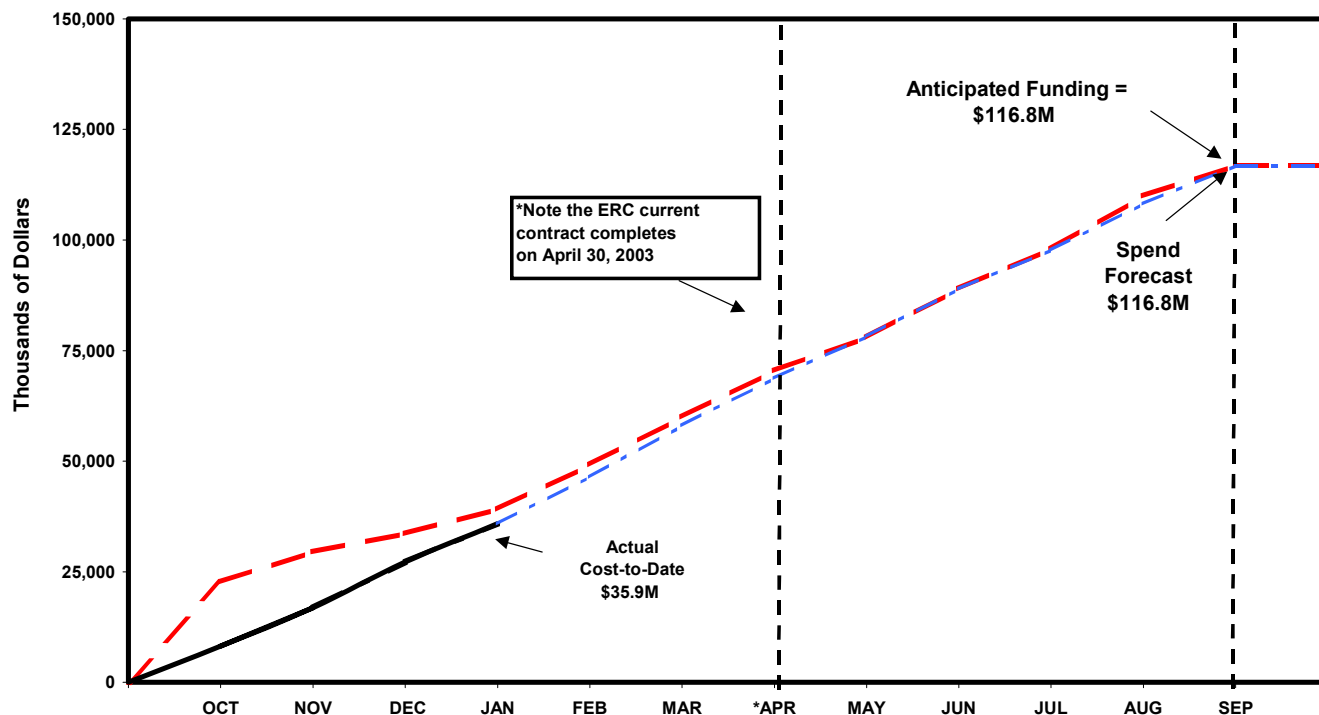
Cost Variance Summary:

At the end of January, the ER Project had performed \$38.8M worth of work, at a cost of \$35.9M. This results in a favorable cost variance of \$2.9M (+7.4%). The positive cost variance is attributed to consolidating common 618-4 and 618-5 Burial Ground remediation activities, LDR lead soil treatment at ERDF less than planned, engineering support less than planned for N Area ancillary facility demolition, and F/H Reactor ISS sampling/demolition less than planned (offset by increase in D Reactor ISS sampling).

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

TOTAL ERC COST/SCHEDULE OVERVIEW (continued)

FY03 FUNDING VS. FORECAST EXPENDITURES (EAC)



		OCT	NOV	DEC	JAN	FEB	MAR	*APR	MAY	JUN	JUL	AUG	SEP	Est Outyr etc.	TOTAL
1	FY03 ERC FUNDING	22,717	29,506	33,639	39,169	49,200	60,000	70,500	78,000	89,000	98,000	110,000	116,809		
ACTUAL/EAC ON APPROVED SCOPE															
2	Actual Cost Cumulative Through January	8,177	16,890	27,213	35,883										
3	Current Monthly Actuals/ EACs	8,176	8,713	10,324	8,670	10,074	10,906	9,015	8,432	10,345	8,409	10,096	8,797		
4	Cumulative Actuals/EACs on Approved Scope	8,177	16,889	27,213	35,883	45,957	56,863	65,878	74,310	84,655	93,064	103,160	111,957		111,957
FEBRUARY FY2003 APPROVED BCPs															
5															0
6	Subtotal Approved Scope Changes					0	0	0	0	0	0	0	0	0	0
FEBRUARY FY2003 PENDING SCOPE CHANGES															
7	RC01 BCP-23X02 D Reactor Fuel Fragment Disposal								40						40
8	RC01 BCP-23033 Additional Plumes at 116-F-1 Lewis Canal					25									25
9	RC01 BCP-22032 Defer Sampling to Support Plumes & Accelerate 100 BC Overburden Scope					86	(62)	(18)	21	27	(57)	(11)			(14)
10	RC01 BCP-22034 Delete Scope for Authorization Safety Basis						(75)	(76)							(151)
11	RC05 BCP-23X01 ERDF Fire Loop Line Upgrade						60								60
12	SS01 BCP-23X04 Implementation of the River Corridor Contract Transition						400	400	500						1300
13	RC01 BCP-23030 109-N Asbestos Abatement Schedule Adjust					20	(60)	52	11						23
14	CP01 BCP-23X03 Addn'l FY02 Subcontractor Fee (Pre-select)							180							180
15	ALL BCP-23X06 Increased Costs for Record Handling (FH City Manager)							17					21		38
16	ALL BCP-23X05 Post Contract Accruals							635					(635)		0
17	ALL BCP-22035 Design Engineering Implementation of NFPA-70E						29	30							59
18	ALL BCP-23027 Prepare Post Contract Completion Requirements							28							28
19	ALL Pending Scope Additions, Deletions, etc.					408	408	408	408	408	408	408	408		3264
20	Subtotal Approved BCPs + Pending BCPs					539	700	1656	980	435	351	397	(206)	0	4852
21	Current Monthly Actuals/EACs + February FY 2003 Approved + Pending BCPs	8,176	8,713	10,324	8,670	10,613	11,606	10,671	9,412	10,780	8,760	10,493	8,591		
22	Cumulative Actuals/EACs + February FY 2003 Approved + Pending BCPs	8,177	16,889	27,213	35,883	46,496	58,102	68,773	78,185	88,965	97,725	108,218	116,809	-	116,809

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

ISSUES (REGULATORY/EXTERNAL/DOE)

See Section B issues.

KEY INTEGRATION ACTIVITIES

See Section B key integration activities.

UPCOMING PLANNED KEY EVENTS

Transition ER River Corridor workscope upon award of new contract.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

SECTION B – RIVER CORRIDOR RESTORATION

Data as of month-end January

ACCOMPLISHMENTS

100 Area River Corridor Cleanup (RC01):

The draft data quality objectives (DQO) report for the 100 B/C Area pilot study was issued. The DQO report supports the development of a sampling and analysis plan for sampling the terrestrial, riparian, and aquatic environment that is needed to conduct a final risk assessment of the 100 B/C Area. Overview briefings were also presented to the U.S. Department of Energy (DOE) Richland Operations Office (RL), the U.S. Environmental Protection Agency (EPA), and the Washington State Department of Ecology (Ecology).

Closeout sampling was completed for the 116-F-19 pipelines. All closeout sampling activities for remediated liquid waste sites and pipelines in the 100 F Area are now completed.

In the 100 K Area, overburden removal was completed at the 41-centimeter (16-inch) process drain pipeline and the initial section of the 107-centimeter (42-inch) pipeline.

The 118-K-1 Burial Ground design basis report was completed, and the preliminary design review is scheduled to begin mid-February.

In the 100 N Area, revegetation of the 120-N-1 and 120-N-2 waste sites was completed nearly one month ahead of schedule. Excavation of plume 6, located adjacent to the 116-N-1 Trench, was also completed during January, and excavation of additional plumes was initiated. A presentation was made to the Hanford Advisory Board (HAB) River and Plateau Committee on January 8 to explain the regulatory and technical aspects of the 116-N-1 waste site Explanation of Significant Difference (ESD). The ESD proposes changes to the records of decision for soil sites located in the 100 N Area, and will begin a 30-day public comment period beginning February 3.

The first-time technology deployment of the Ultra Lift was accomplished at the 100 N Area to move a heavy asbestos safe from the facility onto a truck. The Ultra Lift, which was funded through an Idaho National Engineering and Environmental Laboratory (INEEL) Large-Scale Demonstration and Deployment Project, is a motorized handcart that mechanically aids an operator in lifting a load up stairs and has a second set of wheels to move large loads with additional support.

The *Sampling and Analysis Plan for the 100/300 Area Remaining Sites, Rev. 1*, is being internally reviewed and is scheduled to start concurrent RL review in early February. This revision incorporates a graded approach to sampling design (focused sampling) and the addition of 300 Area remaining sites.

F Reactor below-grade concrete pourbacks were completed on January 15. The seven-day break test was performed on January 22, and concrete forms were removed on January 24. Mobilization for F Reactor roof installation is scheduled to begin in late February.

The DR Reactor interim safe storage (ISS) closeout report was issued on January 20. The Surveillance and Maintenance Plan for DR Reactor safe storage enclosure (SSE) was approved by the regulators on January 29. Approval of this plan satisfies completion of Tri-Party Agreement Milestone M-93-16, "Complete 105-DR Reactor Interim Safe Storage" (due September 30, 2003), eight months ahead of schedule.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

ACCOMPLISHMENTS (continued)

The 100 N Area ancillary facilities Removal Action Work Plan (RAWP) was reviewed by RL and subsequently forwarded to Ecology for review. The Air Monitoring Plan for the 100 N Area ancillary facilities was approved on January 17.

100 Area surveillance and maintenance (S&M) tasks completed during January included:

- Awarded the 109-N facility asbestos abatement subcontract for roof ventilation ducts and piping. The Washington State Department of Health confirmed that a Notice of Construction (air permit) was not required.
- Completed B Reactor structural analysis and issued the report.
- Completed revisions to the B Reactor cost calculations for long-term ISS and S&M options.
- Completed conceptual design of the ventilation upgrade to B Reactor.
- Continued hazards mitigation work in B Reactor (electrical repairs, lead paint encapsulation, fire protection upgrades).
- Continued to apply pre-emergent herbicides to the bare ground (70% complete).
- Inspected the 190-KW building for further degradation of the expansion joint area. No further deterioration was noted.
- Checked the effectiveness of the roof repair (flashing) to KW Reactor that was installed last year. Results indicate it is 100% effective in eliminating water infiltration to the energized switchgear room, 90% elsewhere.

300 Area Cleanup (RC02):

The 300-FF-1 Operable Unit waste sites regrading subcontract procurement package and 60% design were reviewed. The request for proposal is scheduled for release by February 18.

In December, a flame was observed while a front-end loader was performing sorting operations at the 618-5 Burial Ground staging pile area. Analysis results received in January indicated the material was laboratory waste. A restart checklist was developed and approved, and work resumed on January 17. Excavation of the 618-5 Burial Ground was completed with only final cleanup of side slopes and bottom remaining.

The 300-FF-2 highway infrastructure preliminary design review was completed. Design was initiated on the electrical infrastructure to reroute high-voltage power lines and the power pole located in the 618-8 Burial Ground and for electrical utilities to support remediation of waste sites west of Route 4.

River Corridor Waste Management (RC05):

Approximately 204 metric tons (225 tons) of elemental lead from the 300 Area were macro-encapsulated in a single grout pour. This was the largest single pour to date at ERDF and is expected to result in disposal cost savings. ERDF Operations also continued to dispose waste from Fluor Hanford's Spent Nuclear Fuel and Groundwater projects.

Comments from the ERDF expansion 60% design review are being incorporated. The 90% design review is scheduled to start in late February.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

ACCOMPLISHMENTS (continued)

Drummed waste, consisting of uranium chips in oil, that was excavated from the 618-4 Burial Ground in the 300 Area is being staged at an interim storage pad in ERDF. The draft report evaluating technologies and recommending the treatment path for this waste was completed and is in internal review. The final document is scheduled to be issued by the end of February.

The ERDF Disposal team has worked 81 months (since project inception) without a lost time accident.

During January, 60,450 metric tons (66,635 tons) of contaminated waste were disposed in ERDF, for a total of 203,976 metric tons (224,846 tons) disposed to date in FY03. A total of 3,667,619 metric tons (4,042,879 tons) of waste have been disposed in ERDF since operations began in July 1996.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

MAJOR COMMITMENTS (FISCAL YEAR PLUS 6 MONTHS)

TPA Milestone	Description	Due Date	(F)/(A) Date
M-16-10A	Initiate Remedial Action in the 100-KR-1 Operable Unit	08/01/03	12/11/02 (A)
M-93-16	Complete 105-DR Reactor Interim Safe Storage	09/30/03	01/29/03 (A)
M-16-63*	Submit a Schedule and TPA Milestones to Complete Interim Remedial Actions for the Following 300-FF-2 Waste Sites (300-259, 303-M SA, 303-M UOF, UPR-300-46, URP-300-17, and 618-1) and Confirmatory Sampling of the Following 300-FF-2 Candidate Sites (300-109, 300-110, and 333 ESHWSA)	11/30/03	11/30/03 (F)
M-94-01*	Submit a Schedule and TPA Milestones to Complete Disposition of the Following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 324, 3225, 324, 324B, 327 (River Corridor scope currently maintained by FH)	11/30/03	11/30/03 (F)
M-16-03H	Complete Remediation of Waste Sites in 300-FF-1 Operable Unit to Include Excavation, Verification, and Regrading, Including the 618-4 Burial Ground in Accordance with an Approved RDR/ RAWP	12/31/03	12/31/03 (F)

*Scheduled completion date at risk due to delay in awarding River Corridor contract.

PERFORMANCE OBJECTIVES



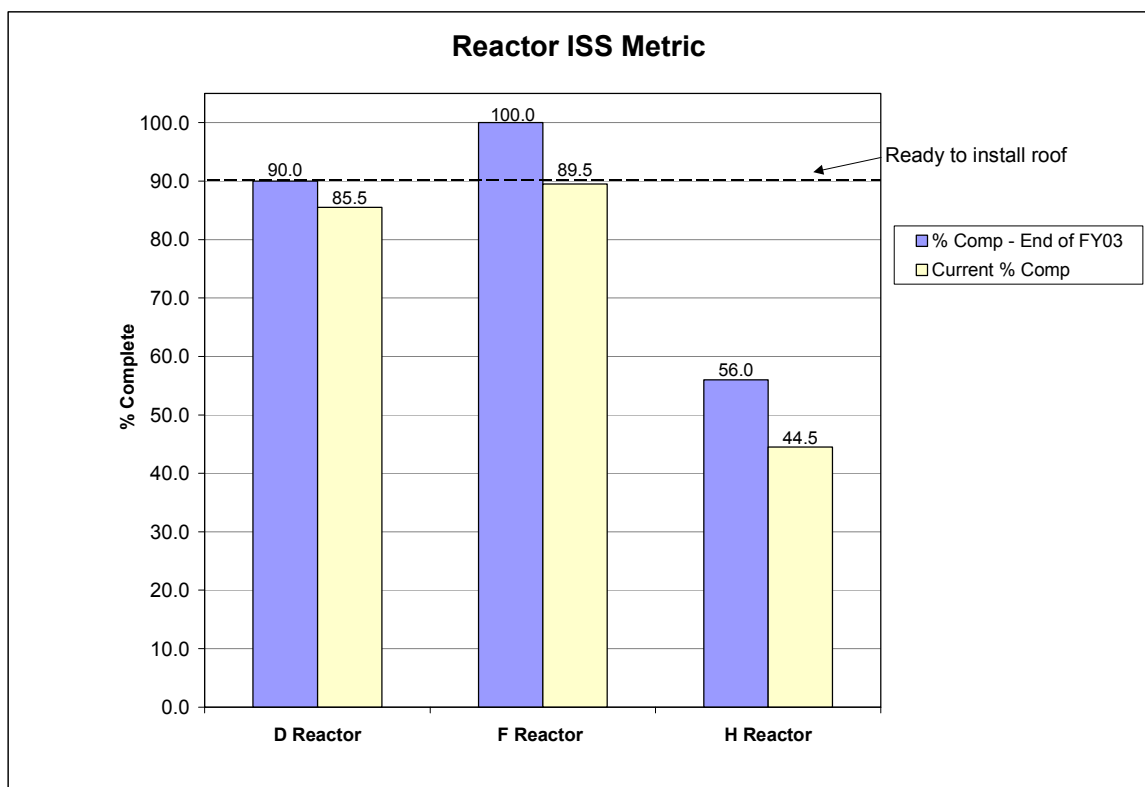
PI	Task
Reactor Interim Safe Storage	Complete FY02 carryover ISS activities at F Reactor by November 20, 2002. Status: Completed on November 13, 2002. Notice of Completion package transmitted to RL on January 8, 2003.

ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT

ENVIRONMENTAL RESTORATION

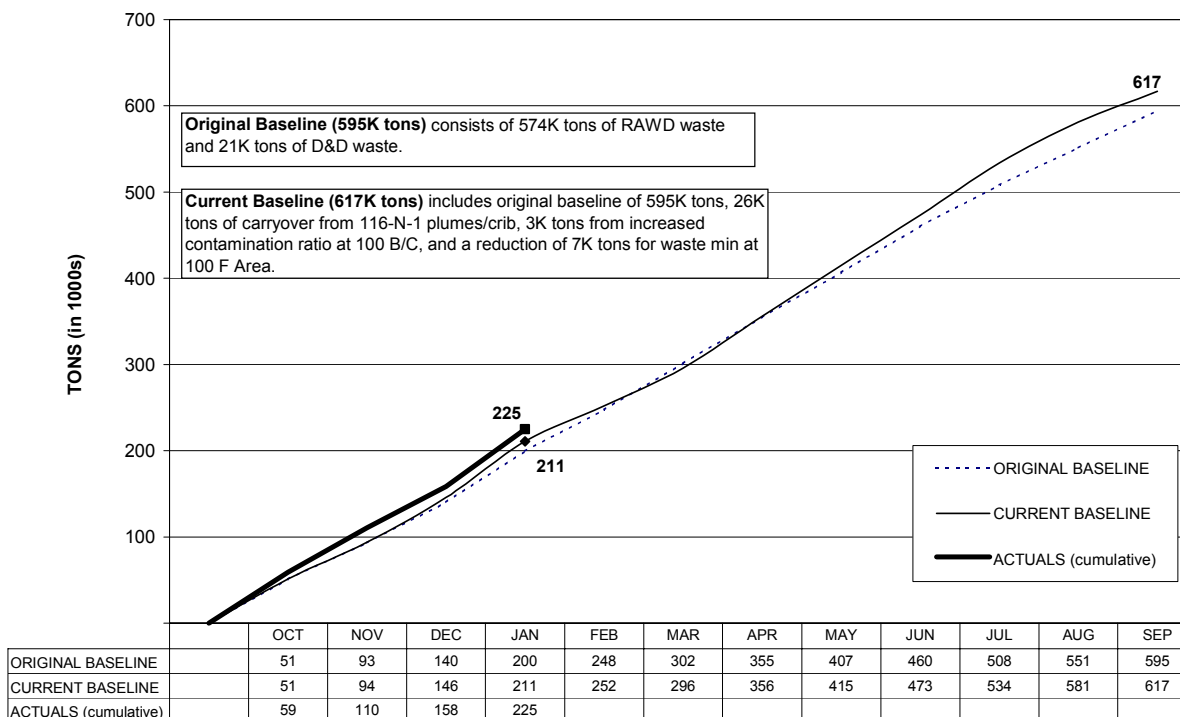
JANUARY 2003

PERFORMANCE MEASURES/METRICS



Remedial Action Metric

Cumulative Tons to ERDF

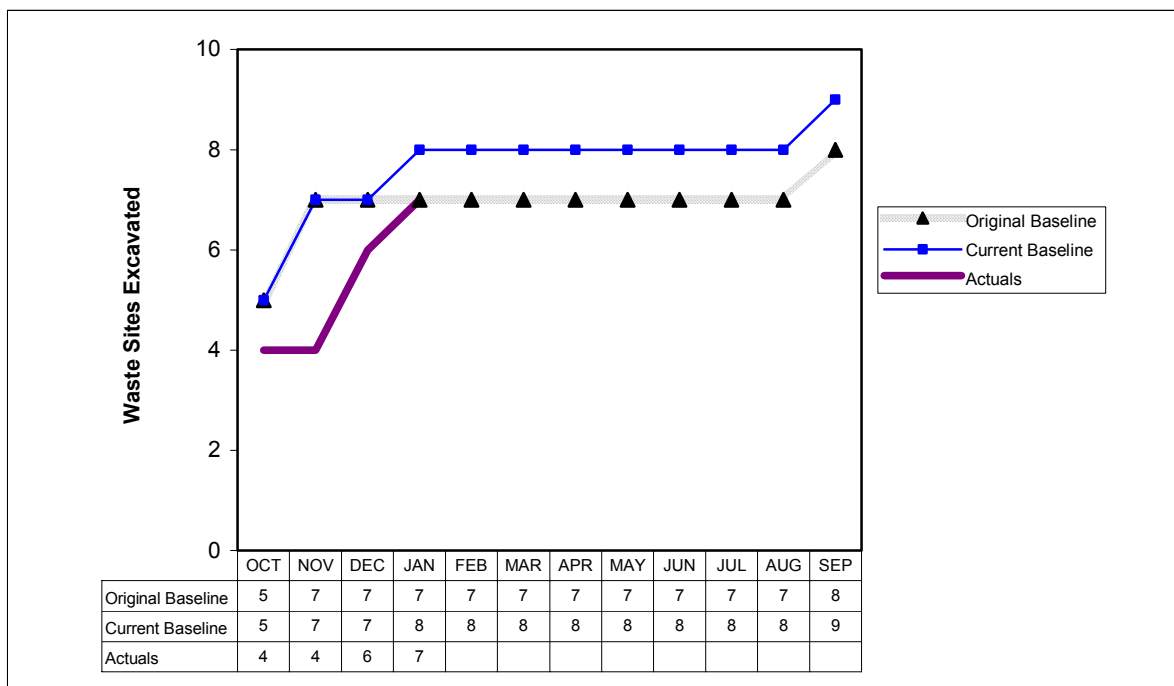


**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

PERFORMANCE MEASURES/METRICS (continued)

Waste Site Metric

Excavations Completed
(cumulative)



Technology Deployments

Technology Deployment	PBS	Date Deployed	First-Time Deployment
Enhanced Site Characterization System (deployed at 618-5 Burial Ground)	RC02	10/02	No
RF Camera System for Brokk™ (deployed at H Reactor FSB)	RC01	10/02	Yes
IPIX 360-Degree Photography (deployed at C Reactor)	RC01	11/02	Yes
Dolphin Electronic Log Books (deployed at 100 K Area for Mobile Access Control)	RC01	12/02	Yes
Ultra Lift (deployed at 100 N Area)	RC01	01/03	Yes

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

COST/SCHEDULE STATUS

Schedule:

River Corridor Restoration	BCWS	BCWP	Variance
	\$K	\$K	\$K
RC01 100 Area River Corridor Cleanup	21,643	21,678	35
RC02 300 Area Cleanup	4,113	5,830	1,717
RC05 River Corridor Waste Management	10,890	11,236	346
TOTAL River Corridor Restoration:	36,646	38,744	2,098

PBS-RC01 – 100 Area River Corridor Cleanup

Schedule Variance = **\$35K; 0.2%**

Cause: N/A

Resolution: N/A

PBS-RC02 – 300 Area Cleanup

Schedule Variance = **\$1,717K; 41.7%**

Cause: 618-5 Burial Ground remediation initiated two months early, and key activities continue ahead of schedule.

Resolution: N/A

PBS-RC05 – River Corridor Waste Management

Schedule Variance = **\$346K; 3.2%**

Cause: LDR lead soil treatment ahead of schedule; waste disposal also ahead of plan by 14K tons due to mild winter weather.

Resolution: N/A

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

COST/SCHEDULE STATUS (continued)

Cost:

River Corridor Restoration	FY03 EAC	BCWP	ACWP	Variance
	\$K	\$K	\$K	\$K
RC01 100 Area River Corridor Cleanup	66,390	21,678	20,347	1,331
RC02 300 Area Cleanup	12,691	5,830	4,884	946
RC05 River Corridor Waste Management	32,782	11,236	10,644	592
TOTAL River Corridor Restoration:	111,863	38,744	35,875	2,869

PBS-RC01 – 100 Area River Corridor Cleanup

Cost Variance = **\$1,331K; 6.1%**

Cause: Savings from sharing labor resources at both 100 F and 100 K Area remediation sites.

Resolution: Underrun reflected in EAC.

Cause: Engineering support less than planned for 1304-N facility demolition. F/H Reactor ISS sampling/demolition less than planned, offset by increased D Reactor ISS sampling requirements.

Resolution: Underrun reflected in EAC.

Cause: Surveillance and Maintenance herbicide and revegetation tasks less than planned. B Reactor hazards mitigation labor and material costs less than planned.

Resolution: Underrun reflected in EAC.

PBS-RC02 – 300 Area Cleanup

Cost Variance = **\$946K; 16.2%**

Cause: Efficiencies realized in 618-4 Burial Ground sorting, sampling, and loadout of contaminated soils; and in consolidation of common 618-4 and 618-5 Burial Ground remediation activities.

Resolution: Underrun reflected in EAC.

PBS-RC05 – River Corridor Waste Management

Cost Variance = **\$592K; 5.3%**

Cause: LDR lead soil treatment costs less than planned; LDR treatment and waste disposal were overaccrued in September resulting in a FY03 credit.

Resolution: Underrun reflected in EAC.

**ENVIRONMENTAL MANAGEMENT PERFORMANCE REPORT
ENVIRONMENTAL RESTORATION
JANUARY 2003**

ISSUES (REGULATORY/EXTERNAL/DOE)

- **100 N Area Remediation:** Results of residual radioactivity (RESRAD) modeling performed for the 116-N-1 crib and trench indicate that the site will not attain groundwater remedial action objectives (RAOs) following excavation. The results indicate that the lowest vadose zone layer contributes contaminants at levels above the RAOs.

Status: Regulators and stakeholders provided input on the proposed Explanation of Significant Difference (ESD) for 116-N-1 site closeout during the Hanford Advisory Board (HAB) River and Plateau Committee meetings held on November 14 and January 8. A revised ESD incorporating HAB and regulator comments was sent to the regulators on January 16. A 30-day public comment period on the ESD started on February 3. Issue closed.

- **M-16-03H - 300-FF-1 Regrading:** BHI is currently preparing a Request for Proposal (RFP) to procure a regrading subcontractor for the 300-FF-1 Operable Unit in accordance with the FY03 Detailed Work Plan (DWP). The project is on schedule to meet Tri-Party Agreement Milestone M-16-03H, "Complete Remediation of Waste Sites in 300-FF-1 Operable Unit to Include Excavation, Verification, and Regrading, Including the 618-4 Burial Ground in Accordance with an Approved RDR/RAWP", due December 31, 2003. During December, the U.S. Environmental Protection Agency (EPA) expressed a concern with proceeding with the approved regrading plan suggesting that a different "industry ready" end state needs to be evaluated.

Status: In response to EPA's comments, RL issued a letter to EPA identifying a potential impact to Tri-Party Agreement Milestone M-16-03H pending the outcome of discussions held in January. BHI issued a letter to RL indicating that the regrading project is on schedule, and that BHI will continue with preparation of the RFP package. However, any changes to the design made after January 3 will require rework. EPA conducted a briefing and tour describing post-remediation regrading plans for the 300 Area to several local government agencies on February 4.

- **M-16-63 and M-94-01:** Tri-Party Agreement Milestone M-16-63, "Submit a Schedule and TPA Milestones to Complete Interim Remedial Actions for the Following 300-FF-2 Waste Sites (300-259, 303-M SA, 303-M UOF, UPR-300-46, URP-300-17, and 618-1) and Confirmatory Sampling of the Following 300-FF-2 Candidate Sites (300-109, 300-110, and 333 ESHWSA)"; and Milestone M-94-01, "Submit a Schedule and TPA Milestones to Complete Disposition of the Following Surplus Facilities: 303M, 332, 333, 334, 334A, 3221, 3222, 3223, 3224, 3225, 324, 324B, 327" (both due November 30, 2003), are at risk due to the delay in awarding the River Corridor contract.

Status: After the River Corridor contract is awarded, discussions will be held with RL and the regulators to determine potential impacts.

- **H Reactor FSB Excavation:** Removable contamination levels on the concrete floors of the H Reactor FSB have been found to be significantly higher than expected during initial planning.

Status: Work involving removal of additional sediments from the FSB has been temporarily suspended until additional radiological survey data can be obtained, current work processes and engineering controls have been reviewed and revised as necessary, and the applicable radiological work permit (RWP) has been modified to address the changes in the radiological conditions.

INTEGRATION ACTIVITIES

None identified at this time.